

COLLIDER ACCELERATOR SHUTDOWN SCHEDULE – REV. 1

R. Zaharatos – April 1, 2003

RHIC SHUTDOWN PERIOD(FOUR HOURS): WEDNESDAY, APRIL 2, 2003
- 0830 TO 1230HRS

STUDIES USING UNPOLARIZED PROTONS WILL CONTINUE WITH
BEAM UP TO THE “W” DUMP

AGS – NO ACCESS

BOOSTER – NO ACCESS

LINAC – NO ACCESS

RHIC TUNNEL REMOTE CONTROLLED ACCESS PERIOD – 0845HRS –
1200HRS

RHIC RESTRICTED ACCESS AREAS – IR’S: BRAHMS, PHENIX(BOTH 1-
2 HRS), AND STAR(3HRS). TUNNEL ZONES: 5Z1(3.5HRS AND 6Z2(2HRS).

PRIMAY JOBS:

JOBS STATUS CODE: **C** complete **IP** in-process **RS** reschedule
CAN cancelled * additions

RHIC TUNNEL

- 1 P.S.’s – repairs(See List)
- 2 RF – repair Ya32 Accel. Cavity
- 3 Lead flow temp. measurements(Cryo/Sadinsky)
- 4 Cryo Controls – repair thermal switch at 4Q6(Gate 4GE2/Kollmar)
- 5 BPM adjustments in sectors 1 & 2(Sikora)
- 6 Polarimeter in sect. 12 – replace preampl.(1-2hrs/Sandro)
- 7 Check polarity of Spin Rotator(Yo5-rot3-1.4(alcove 5C/Ganetis)

RHIC EXTERNAL

- 1 V125 Abort Kicker Brd. – change firmware to improve time stamp accuracy(10a-ps2 and ps3)

RHIC POWER SUPPLIES

Ice Ball Checks

Ice ball teams to be named.

No repairs outstanding. Repair team is **Rich C and Bob Mac and maybe Mitch** too. Will get others involved too so everyone can do repairs.

1004B (1010A?) Q6 and Q7 Time Constant Work

Don and ?

1004B Main p.s.'s Timing Resolver Work

Fred and ?

Corrector Power Supplies: See Table below **Brain and Gene**

1. Start checking corrector p.s. fans and rack fans since not many correctors to do.

Corrector P.S.	Problem On all of these check AC connections and DC connections at the magnet and power supply.	Comments – What was really done- What was found	<i>Serial Number</i>
Yo5-oct2-ps	Tripped off once on 2/5, 3/17, 3/25. Swap out with a p.s. that has new micro and R and C mod.		
Yi7-sx3-ps	False readbacks, replace node card cable.		
Yi2-tv4-ps	Does not show local on pet page when you put into Local. Investigate, possibly needs a new node card cable, try installing one, I think we have them in the trailer, check with Brian. Low priority. We probably should not touch it at all. Don't touch it yet.		

Magnet Work

Ceramic Feedthrough cleaning in sector 3 where ground fault was found.

Ed Weigand and crew

Spin Rotator Magnet Heater Work

Paul needs to work on a snake thermostat

Tq QPAIC in 1010A-Check J24

4b-ps3

Wing needs to re-boot

Permit Bypass Chassis in 1008B

Wing & Someone need to check it out, readback doesn't look right.

Alcove UPS Work

Go into tunnel with PK and measure current draw on 110V panel that will go onto UPS

Snake and Spin Rotator P.S. Work

Swap out node card cables for bo6-rot3-1.4 and yi6-rot3-2.3

IR Power Supplies

1. bo2-qd1-ps shows an AC phase flt when there is a QLI. If there is time take a look at this. **Joe &**
2. Possibly remove bo3-tq6 and/r yi10-tq5 because they each tripped on FET faults once and we may want to examine one and see if any FET's are blown.
3. In 1010A, if there is time we may want to check more tq power supplies for shorted IGBT's by looking at the AC current during a turn ON. Looked at yo9-tq4, 5, 6. yi10-tq4, 5, 6 and bo10-tq4. Only yo9-tq4-ps was shorted. **Yo9-tq4 has been swapped out.**
4. Possibly swap out firing card of y8-dh0-ps.
5. Screw in more 3u chassis cards. 1012A done. Half of 1004B done and some of 1002B done. **Brian and Gene, Some doen at 6b**
6. Inspect buildings 1004B, 1006B, 1008B 1012A for broken internal fans on stand alone dynapowers. 1010A and 1002B were checked.
7. Put main p.s. filter material in rear doors of tq racks. **Mitch**
8. Keep an eye on y12-dh0 (OFF problem) and y6-dh0 (large voltage ripple and spike). Nothing to do as of now.
9. Keep an eye on yo4-qf2-ps. It caused a QLI on Sat 3/15/03 at 1:15 and Wed 3/19/03. It looks like the voltage spiked up on 3/15 and the p.s. started to oscillate on 3/19.

Tunnel Work

1. Tape down floor fans in the tunnel that cool magnet trees. **Not Done.**

QPA Work

1. Start replacing all QPA D connector hardware?? (b2-dh0-qp, yo8-qp8-qp and yo8-qd1-qp done) **No One. Not Done.**

Gamma-T Power Supplies

Go into alcoves and tighten AC connections of Gamma-T's in 3C, 7A, 7C, 9A. **No One. Not Done.**

Snake and Spin rotator p.s. Work

Label the rest of the circuit breakers. **Someone.**

Quench Detector

Go around and check quench detector fans are working - **Dan O**

Valve Box Work

1. Need to replace flashers at top of valve boxes for 2b and 6b
2. Check light control chassis at 10A because no green lights work.
3. Check green light above blue valve box in 1002B.
4. Light control chassis in 1008B needs to be fixed. Opto logic is reversed.

Sector 9 Lead Flow Temp Experiments

George and Cryo

ATR Power Supplies

1. Run X-ARC90 in voltage mode..
2. Test SWM p.s. setpoint buffer.
3. Tom Nehring may swap circuit breakers 42 and 44, probably won't happen anytime soon..
4. If ground fault comes back on WQ3 p.s. try something else. AFB board was replaced 9:50 Wed 3/5/03. **Problem has not returned as of now.**
5. XARC90 and YARC90 phase sequence relay jumpered out. Decide what to do for fix. YARC90 phase sequence relay probably still good because LED lights.